# AMERICAN FARMER.

## BURAL ECONOMY, INTERNAL IMPROVEMENTS, PRICE CURRENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. III.

## BALTIMORE, FRIDAY, JANUARY 25, 1822.

New 44.

#### AGRICULTURE.

#### ADDRESS

Delivered by JOHN DAVIS, Esq. of Augusta, before

THE occupations of the President of this Society, though they have assumed a new shape, have again deprived us of the pleasure of listening to that Address from him at our Annual meeting, which the rules of our Society might otherwise lead us to expect .-This appears however to be the only good office in our favor, which our President seems willing to omit; as is again made manifest by his attendance among us to preside at an Annual Meeting, the second which has been held at this place.

In consequence of the state of things here referred to, the Committee of Publications has been a second time charged with the appointment of a sub-committee. to prepare an Annual Address to the Society; and I am requested to deliver to this assembly that of the

As the Address delivered here the last year was designed to demonstrate the Importance of Agriculture to a State circumstanced like Maine, it is in proper connexion with that Address, that we should notice on the p esent occasion the various methods by which Agriculture can best be promoted. Since that part of our subject however will be passed over, which is purely Agricultural; we shall merciy have to consider some of the modes of preparing our farmers for their important profession; and also the me ins by which they can best obtain assistance in their pursuit of it.

1st. Then, our farmers ought to possess diligence, economy, neatness, method, and a leve of carrying things to their due point of perfection; together with certain well known principles of morality. It happens fortunately for those intended for the occupation of consequently within the reach of some control Here and the exhibition of models. it is then, that the above habits and principles may easily be enforced upon the young farmer, and be joined to domestic feelings and to a sense of religion; upon which pillars the characters best capable of a solid conduct may in most cases be expected to be

2d. The next requisite for a farmer is information. By information, we do not mean theory separate from of this important truth. experience; for every intelligent farmer when settling in a new neighborhood, ought at first to keep his eye on the practice of the inhabitants who are most successful in the management of their farms; till he has attained a local experience of his own. Formerly, diligence and economy made the chief dependence of the husbandman; but so many secrets of art and nature are now laid open to view, and so many other helps offer themselves to him in our day, that if he does not avail himself of some of these advantages, rivals will soon out strip him.

Farmers however must in general be content with practical knowledge. Their experiments should be few and of a limited nature; and they must learn as much as they can from the experiments of others, for these cost them nothing. - The poor especially should be cautious ; for in poverty, as in the conduct of war, there is seldom room for a second grand mistake.

But the worst difficulty respecting agricultural knowledge is, that it is hard to obtain it in a short time in a form suited for immediate use.

3d. Some methods for obtaining and for circulating knowledge shall therefore be mentioned.

First, a liberal premium may be offered for the the Members of the AGRICULTURAL SOCIETY OF MAINE, composition of a short and interesting treatise on the at their annual Meeting, on October 31, 1821; be- practical part of the Agriculture fitted for Maine; ing the day of their Shew of Cattle, &c. then held at and another premium for a like treatise, teaching the general principles of Agriculture .- Next a periodical publication may be set on foot, under the direction of the Committee of publications, and be confined to agricultural subjects; similar to those journals now so frequent in the civilized world, in the case of other branches of knowledge; and this will serve as a channel for the communications of Agriculturists with each other. Again, an agricultural Library is required both for readers and for writers on husbandry .- The directors of the social libraries throughout the country should also be invited, (where this is not done already) to make their purchases of Agricultural books, as extensive as their readers will permit.-Lastly, prize questions (such as are contemplated by the con stitution of our Society,) on subjects of husbandry should be brought forward as soon as the finances of the Society can support the charge.-But perhaps of all these projects, that of procuring the immediate composition of two treatises on Agriculture, divided as above mentioned, is the most important. (a)

4th. The next article which is to be named, might have been classed under the preceding head, did not its importance claim for it a separate consideration; ter their first institution. (b) we mean, a professorship of Agriculture.—This profes
If common sense were to desorship may be placed at a College; but must be open of the comparative value of Institutions like that which to the attendance of strangers; who, at the same time we are celebrating, and those of the ancients: we that they are pursuing this course of lectures may under might safely assert that our Agricultural Exhibitions certain conditions be permitted to attend such other lectures, as can be beneficial to their great pursuit -It is obvious that as these lectures will chiefly regard principles, they may not be suited to the generality of which in truth were wantonly cruel, and in some cafarmers; nevertheless from the practice of those who ses expressly designed to extinguish in the spectators will have attended them, something may be learned the feelings of humanity; (c) differences, doubtless owwhich shall be useful to farmers generally throughout farmers in this country, that while young, they are generally placed upon farms so extensive, as to keep the families upon them distinct from each other, and save as well as in being accompanied with experiments treatises mentioned above in their being more extensive as well as in being accompanied with experiments

> How this professor is to be compensated for his labors supposing the fees from his pupils to be insufficient, will be mentioned hereafter.

> 5th. Another mode for advancing Agriculture is to support Societies, like our own; but on this subject we need not dwell before this respectable assembly, since it is now collected here intensequence of a conviction

> 6th. But we must speak more at length of what are called Cattle Shows; for which the name of Agricultural Exhibitions would apparently have been more

appropriate, comprehensive and respectable.

We shall recite some of the good tendencies of these institutions.-They manifest in a single view to every farmer, what can be done by the best of their profession; they lead not only to the imitation of what is exhibited, but to attempts at higher excel-lence; they offer the immediate means for the im-provement of the stock, crops, tools, and machines of the farmer; they give to our farming animals a better

(a.) Mr. Arthur Jones mentions as a source of information, travelling for a week or fortnight in the ly, to cut off the most during and active of their own best cultivated countries, and holding conversation s'aves, by training them to fight in their own presence best cultivated countries, and holding conversation with their intelligent farmers; provided a trusty person in the mean time can be kept at home. He re commends June as the proper month for this in Eng-

chance of esc. ping crueity and neglect, by sense age them more valuable in their qualities and more res pectable in their appearance; they demonstrate the attachment felt for agriculture by all ranks of the comnunity; they make Agriculturists from different parts of the country acquainted with each other, in order that they may profit by the mutual communication of knowledge and friendly services; like great national festivals, they bring together annually many other persons of all descriptions, and thus serve as a new link to society; under cover of them also, other interesting articles may be displayed to public notice; they promise gradually to present us the advantages of a public fair, (on the principle of those known in Europe,) at which all may buy, sell, and barter agricultural articles, and by means of samples enter upon still more important bargains; and they offer a gratification to the feelings of many, which is not only free from danger and crime, but may be accompanied by profit, as well as enlarge the ideas and therefore elevate the aims of the specta-These institutions have accordingly rapidly spread in this country, since they were first a few years ago introduced from England into Massachusetts; and have had their objects extended; and they are growing in favor wherever they have been tried: unless where they have interfered with each other, from being placed too near together.

These institutions promise also to be durable-The games in Greece called Ohympic Games, \* \* \* did not finally close their career, till near twelve centuries af-

If common sense were to decide us in our estim te are, for our purposes at least, far more useful than the public games of the Greeks; and they are certainly far more innocent than the public shews of the Romans, ses expressly designed to extinguish in the spectators

(b) Dr. Burney in his History of Music, says, that in the year 77%, before Christ, the Olympic games first began to be regularly celebrated once in fifty-two months, or on the second month after the expiration of four years; and to serve as epochas to all Greece," [under the name of Olympiads] And again he re-lates, that "the Olympic games, according to St. Chrysostom, continued to be celebrated with splendor to the end of the fourth century " Vol. 1, p. 368 and 373. See also Potter's Antiquities, Vol 2. B. 2, C. 24. In the diminutive territories of Greece (proper,) there were four games; namely, the Olympic, the Pythiam, the Nemæn, and the Isthmian, with the greater and smaller Panathencan; being all called Sacred.

(c.) In truth, the conduct of some of the Greeks was not less inhuman, than that of the Romans; and this barharity among the Greeks as well as among the Romans, had some relation to the degree in which their institutions favored war. The Lacedemonians from time to time, and as part of their national policy. slaughtered in cold blood, a portion of the Helot nation, which they held in domestic slavery; to reduce their numbers to the limits prescribed by policy and e-onomy. The Romans on their side, may be supposed to have had in it riew secretly, but yet principalunder the name of gladiators (or swords men.) - The Greeks not being wealthy, originally had no shows of gladiators or of wild beasts; but after the Romans had made the world familiar with these practices, the

<sup>\*</sup> Felix quem faciunt aliena pericula cautum.

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ng to the bappy influences of the christian religion, mittee of Publications of this Society. The two lat-

the games of the Greeks as regards horses, which are the whatever these Committees shall be pleased to still too much neglected on this vast continent; but communicate. ten years will probably place us on a level with the Greeks in this particular. As to the feats of bodily the Society, with the several small Agricultural So-Greeks, it may easily find its place at our annual meet- presumptuous. ings; and when put under the safeguard of our religion, by being presented in the form of Oratorios, must become infinitely superior in its good effects to what was exhibited in Greece; where the words to which the music was set, were often licentious and seldom improving. (d)

On the whole then we may ask where any exhibition is to be named among the antients, on a great scale and calculated for domestic or pacific use, answering to our new Agricultural Institutions! We can easily add whatever is wanting to these institutions on our side; while the antient games will be found to have been deficient as to all the particulars, (horses excepted) which we have this day been gratified in viewing, Yet our new Institutions are only in they are well adapted to the feelings of our people, who are not only devoted to agriculture, and proud of

ritory and upon its cultivat on.

We say then of the policy which set on foot these Institutions, "esto perpetua:" may it increase, be in-

creasing, and last forever (e)

7th. There are several other modes of assisting agriculture, which must still be mentioned; but that it may be done with a due regard to brevity, three of them will be connected under one head.

First, the public good requires that the Committees which are proposed for each County, be regularly nominated, and then be rendered active, by the aid of the Vice Presidents. The distant residence of the will for the most part, tend to reduce the operations of each Committee very much to a mere written cor respondence; internal's within their respective Coun-

fights of gladiators are said to have found favour a mon the Greeks.

(d) The following passage stood in the address, but is now withdrawn from it, to appear only as a note. -The American farmer will find no higher delight than to hear celebrated (in words or ideas borrowed from Scripture) a display of the riches, the beauties, and the grand scenery of nature; the gratitude of the husbandman; the utility of his profession; and the innocency and charms of a country life. may in the end, obtain admission into the family of the raised out of the garden itself. farmer, as well as into other situations, where music of a less improving description sometimes finds its found in the above address; and in the remark, that way.

intendeth."

and of an improved state of knowledge and education, ter will doubtless endeavor to concur with the Coun-Our agricultural exhibitious are as yet inferior to ty Committees in every good work, and to render pub-

strength and skill exhibited among the Greeks, our cieties in our own State; and also with Agricultural manners neither demand nor admit them; and foot ra- Societies (small and great) in other States of our ces, if they were of any value, might easily find a place Union; and particularly with that of Massachusetts, among us. Military exercises have a different field our twin sister. The time perhaps approaches, when and a different form of display with us, from those single States of the Union may communicate with known in antiquity; and we are in any event rapidly some neighbouring State for the purpose of obtainputting ourselves on a par with all the nations with ing something useful to each State, but which nei-whom we are likely to contend, whether by land or ther State can easily obtain singly. If by any of by sea. Intellectual efforts, which the Greeks encou- these means, we can acquire, or communicate, one useraged at their public games, are much better provid- ful idea, it will be of National importance : and in the ed for in our day, by means of printing, and the ex- same manner, a single grain of serviceable wheat, imtensive spread of knowledge and civilization, exhibit- ported among us by measures of this kind, may in a few ed in our two nemispheres \*\*\* As to Mus c, which had years form the basis of a National Crop-These hints

> But it is evident, that for these and various other purposes, the society will want suitable places of deposit for the plants, seeds, machinery, animals, and other articles which may come into its possession, or may require the present occasion; and lastly, it would imply the distribution; lest, what is thus obtained should finally be lost to our country; or not be treated with a tion, a tax which ought to have taken place under due attention, as to the fair and prompt division of the old Government, and which should always be the property.

8th. There is another article to be touched upon great effects often to be produced by what may seem antients considered hunting as a good preparation for its progress; but their emulation is wisely directed tween gardening and farming; since as far as vegeta- only to plead in favor of some tax, and to shew what to the advancement of their own interest and of the tion is concerned, these two arts rest on the very same are the funds for supplying it. national grandeur, which mainly rests upon our ter- principles. The care of these little artists, is not deby the hands of busy, cheerful children, may someof the Vice Presidents. The distant residence of the the knowledge of farming; and for habits of order, members of a County Committee from each other, forethought, and industry. (f)

9th. But we are now come to a graver subject, that of finance; for upon a few of the points mentioned in this address, we shall want some little legislaties, and externally with the Trustees and the Com- tive assistance. We ask, then, who are those interested in the success of the farmer? Are they not all

> (f) The opinion that Gardening of certain descriptions should be prohibited to the children of farmers, on account of its being expensive, and (to say the least of it) useless; borders too much upon severity.

With respect to expense, the land for gardening is easily spared on an American farm; youn; persons will task themselves also in their work, to obtain time The talent of our vocal and instrumental performers for cultivating it; and they will naturally raise upon soon recovered, a taste for the most innocent, as well will not only by means of this kind be made perfect; it something for family use, or something suitable for but our Poets be induced to give us more interesting forms of words, than are now attached to what is called Sacred music. By these means, Sacred music ed: and the seeds for all following years, must be ernment by his former colleague, Vaximian, he re-

The answer to the other part of the charge will be Gardening was held innocent in Paradise; and that This conclusion may be inforced by the re- ornament, such as is sought in one species of gardenmarkable expression of Lord Bacon in one of his Es-ing, is found widely spread through nature itself, and says: "Every nation groweth great in that it most intendeth." what is actually furnished by nature.

who inhabit our State? And should not all pay a little of that trifle which the success of agriculture requires on such an occasion? If one hundred thousand dollars be, in a short course of time, either gained or saved to our State, by the new attentions which under proper patronage may be bestowed upon agriculture; the interest on this sum is six thousand dollars; and we appeal to those who have travelled (and especially this last year) in our different States, or have received information from those who have so travelled, whether the accounts of gain or saving in crops, in stock, and in tools, do not make this a very low estimate for the effects which may be produced in our extensive territory, which forms almost the half of New Eng. land. A tax for the farmer's aid, according to Dr. Franklin's rule, would thus soon be returned back into the pocket of the payer of it, and in effect be a mere advance. Nor should the desire of avoiding censure on account of the increase of tuxes, since our separation from Massachusetts, have the great attention paid to it in the public games of the then, are neither to be despised, nor yet to be thought least influence here; for this may be called a gone-by question. We cannot return to our union with Massachusetts, nor does any one seek to do it : those also who once objected to separation, are some of the very men who will be foremost in the proposition of a grant of money for the farming interest on utmost injustice to charge to the account of separawithdrawn in a comparison of the charges of the two Governments, since the tax will be of a new descrip. which is of the preparatory kind, and which will tion. Let all objectors to a tax on this subject, reseem trifling only to those who are ignorant of the collect the noble proceedings in favor of agriculture both of the state of New York, and also of one indivismall causes. Children intended to lead a farming dual in it, General Van Renselaer; who alone has life, having many vacant hours, it is recommended consented to give five hundred dollars to an Agricultheir infancy; and may every year be improved; since that Gardening may be encouraged among them. The tural Society annually for at least six years. The amount of our tax must of course be left to the wis. soldiers; but surely the relationship is still closer be- dom of our legislature to decide; it is our business

10th. It is now however time to conclude by the signed to be confined merely to vegetables and fruits; mention of a few facts, which wil attach the farmer for they should be permitted to cultivate flowers and to his profession, and thus be a main aid to agriculornamental trees in addition. The traveller, who ture. In the East, Solomon and some of the Assyrian shall see our country thus in every quarter decorated princes were fond of gardening, plantations, botany, or agriculture. The Emperors of China, also both of times feel inclined to settle in it, or may make favoura- antient and modern times, on one day of every year in ble report of it to others: and in any event, we ought the presence of their people, plough the soil in perto wish prosperity to an innocent occupation, which son, and on another day they sow it; and similar wise attaches each family to its home and to a country examples have been set in other Eastern nations .life; leads their thoughts to their Creator; and Great men likewise among the Carthaginians and aprepares them, as it were, in a sportive manner, for mong the Romans, have written on husbandry; and are mentioned with honor to this day for having so employed their time. Cincinnatus (the patron of our Cincinnati societies) a great commander in Rome, was taken from his plough to be invested with absolute power for six months, in order to rescue his country when in a state of extreme danger. In a latter age of the Roman Government an example occurred of a still more memorable description, which shall be related as nearly as possible in the words of Mr. Gibbon. The Emperor Dioclesian, after he had vanquished all his enemies and accomplished all his purposes, volun tarily retired to pass the last nine years of his life in a private condition. Reason (avs Mr. Gibbon) had dicated, and content seemed to have accompanied his retreat; in which he enjoyed, for a long time the respect of those Princes to whom he had resigned possession of the World. He preserved, or at least, he as the most natural pleasures; and his leisure hours jected the temptation; calmly observing, that if he could show Maximian the Cabbages which he had planted with his own hands, he should no longer be urged to relinquish the enjoyment of happiness, for the pursuit of power.

In Great Britain, Mr. Arthur Young had as contributors to his publication called the Annais of Agriculture, not only Dukes writing in their own names,

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a borrowed name. The memorable Earl Chatham and would have been sold still more readily, had not the Charles Fox, with almost the whole of the nobility day following the Cattle Show, when these articles and gentry of the British Empire, have interested were exhibited proved rainy and stormy. A hand ing of farming animals. In our country, three Presi-dents of the United States have made themselves re-markable by what they have written on the subject of There was a good crop of potatoes announced; with a mind too excellent, and feelings too amiable and bushels required (which was 70.) Among the vegepatriotic, not to follow this useful occupation.

covered processes occurring in vegetation, that he of intoxication. seems as it were not only to be taken into partnership. Of the events of the day, the most animated part with the great provider of all good, but he is even was the drawing of a loaded drag and a loaded broad. If there be any truth then in the ob. to the next day. servation, that those are among the happiest of men. The procession of the members of the Society to who have laboring hands, a thinking head, and a feel-hear the address, headed by General Robinson, the held profune, or fearing to be contradicted FARMER, REVERENCE THYSELF.

weather such, as left no one room to complain either press in upon the cattle nearer than was wished.

were, in general, very young; lastly, the cows also were good, but the largest, (belonging to Mr. Little, of tactics possessed by this Committee, the expected by this Committee, the expected by the Committee, the Committee by the Committee by

themselves in planting trees, or else the Gardening some piece of Carpeting was exhibited by Mr. Elias on a larger or smaller scale; and many of them have Bond of Hallowell, with a Leghorn hat by some othsuperintended the cultivation of farms and the breed- er person, and several threshing machines. Two chance for having the next Cattle Show celebrated Agriculture; and four of our Presidents when their a large and heavy crop of wheat, besides one of corn, term of office expired, have nobly attended to the con- of 102 bushels to the acre, but of less weight by the ducting of their estates; and the fifth President has bushel than one which fell short of the number of table productions were several large pumpkins.

On what does all this uniformity of proceeding in Of the company there was much to boast. intelligent and prosperous Nations, depend; but on late Governor (Gov. King) was present, as a new the great principles and great interests of human namark of his constant zeal for the interests of the ture. It has been well observed, that agriculture is Society; as also General Wingate, one of the candiperhaps the only pursuit in which political men can dates to supply his place, and a gentleman likewise and this is not less true, where they have sense, virthe Society. Judge Paris, the Governor, would Although the propring the sec tue, or domestic qualities. Agriculture is an occu- have been present had he not been on public duty, pation which by its infinite variety, its constant exer- Three out of the nine Vice Presidents of the Society cise of the intellect, the beautiful objects connected were present; a proportion (too small however) of the beautiful plant, gives some indication of the quality with it, and the degree in which it flatters self love when its works become perfect, joined to the sense of the utility attached to it; it is an occupation, we served in Congress; a judge of the Supreme Court the ground in the human of the state; several other judges; and an assort places only two plants are left, and in this state it mind; and, even of affording something like consola- ment of company drawn from eight counties out of remains until there is appearance of shooting to joints, tion for disappointments.—In our days, in particular, the nine into which our state is divided. The specadditional pleasures are to be obtained from this occupation. Besides the new objects and operations which have arisen among ourselves, or have been derived exceptions, very decently clad; and all behaving, in have a strong and healthy appearance, three are suffrom foreign countries; men of science have laid open general, with propriety, and without any oaths or imto the intelligent Agriculturist, so many recently dis- proper language, and with scarcely a single instance pearance, two only are left, but where they look stunt-

allowed to direct many of the efforts of nature, and as wheeled cart by cattle; which was very memorable it were to change her very constitution and habits, for its results. This part of the Show was prolonged

his profession; he will possess a conscious dignity gave a short, but very appropriate prayer, previous to and satisfaction : and may safely say, without being the reading of the Address; an office performed by John Davis, Esq. of Augusta, who acquitted himself accustomed to speak to so large an assembly as was pull up or cut off the inferior. Agricultural Society of Maine.

Agricultural Society of Maine.

The second Cattle Show of the Agricultural Society of Maine, was held on Wednesday, the 31st of October, on the Plains between the villages of Hallowell and Augusta Bank, by Mr. Smith of the tober, on the Plains between the villages of Hallowell and Augusta Bank, by Mr. Smith of the Washington Hotel; and passed off very harmonious-ly and sift the occasion had made the whole company by G. W. in your No. 38, v. 3d. His experiment is between the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the cases and the object was of some povelty in the case of the columns of our paper this day. The dinner was given in the Hall of the and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to state my success in a future paper, and because your useful and wide circulating journal, has already communicated to success in a future paper. in the season, and the object was of some novelty in brothers. The Marshalls of the day were J. M. Inour part of the country, as well as of some import- graham and S. K. Gilman, Esq'rs. under whose auspiance to the whole state, it was looked to with a mix- ces every thing assumed an air of order and ease; exture of curiosity and anxiety. Happily the day was cept at the drawing of the working cattle; when the bright and without wind, and the temperature of the crowd partook too much of what was passing, not to

of leat or of cold. The day being thus favourable, the Shew and every thing else corresponded with it.

The collection, both of heifers and of young bulls, the whole committee of arrangements did not meet towas very fine, and matter of great promise for future gether till Tuesday noon, and that the trustees who contend with the tremendous labour of manuring my years; the working cattle were numerous, and answere to appoint the committees for adjudicating corn with farm yard manure, that I gladly catch at swered every expectation, both in their appearance the premiums, in truth had no regular meeting at all, any rational plan which will enable me to perform this and performance; the stud horses were eleven in and that the very limited funds of the Society prenumber, including Financier, who for want of sufficient vented part of the wished for expenditures; the day length of residence, could only be exhibited; the must be considered as having passed very happily. lots of sheep were somewhat less numerous, but dis- The Committee of Arrangements for next year, when practical farmer, and I earnestly recommend experiplayed diff rent shades of the merino breed, besides the Cattle Show will again be held at Hallowell, are ments with lime, to ascertain its power to cradicate some which were professedly mixed; the swine were good, but on account of the trouble of transportation, were, in general, very young; lastly, the cows also

Esq. of Augusta.

From the energy and knowledge bandry has prevailed. Mr. Ruffin says—"An acid soil

but the King of England (George 3d) writing under eral, with a ready sale, at high prices; and the whole desired, particularly as the feelings of our farmers a borrowed name. The memorable Earl Chatham and would have been sold still more readily, had not the and of the public in these parts, seem to be at a high pitch of excitement.

The day for the next Cattle Show of our Society, will be on the SECOND Wednesday of October, (instead of the last Wednesday,) which gives an additional under an improvement of its circumst nees.

N. B. The official account of the Cattle is expected soon to make its appearance.

#### FOR THE AMERICAN FARMER.

## On Indian Corn.

10TH JANUARY, 1822.

I am to prove to you that I have two stalks

Although liberal in dropping the seed corn, we do not think it necessary to commence thinning, as early as is common, but wait until the appearance of this places only two plants are left, and in this state it fered to remain, where they have but a common aped, yellow, or upon known poor ground, only one is

I was led to adopt this method of thinning, in consequence of an experiment made upon a bet that I lost, which of three persons would grow most corn to the acre. I planted in rows six feet apart, every ten rows alternate were planted, one stalk one foot apart, two stalks two feet apart, and three stalks three feet apart, ing heart; and if the farmer joins to this the reflection of Kenebec County, moved about a quarter the bet, and the corn in a situation and of a growth tion of the participation which is thus allowed to him before one, and arrived at the Rev. Mr. Gillet's which drew constant observation, made it interesting. which drew constant observation, made it interesting, in the works of Providence, and the avowed utility of Meeting House, about one. The Rev. Mr Gillet and the general opinion decided in favor of the three stalks as best, and against the one stalk as worst .-The corn should be cut as ow as possible, and always from the remaining stalks, and wherever a dwindvery happily in his task, except that from not being ling stalk appears among those of a superior growth,

> not only within the reach of every farmer, but when we consider the cheapness of the materials, and the great saving of labor, I hope the experiment will have a full, fair, and comparative trial with other manures. Let the experiments be like those of Mr. Quincy of Boston, who putting a fair value upon every kind of labour, rent, and materials, always draws a convinc-

> I will try the plan of G. W., for I have so often to necessary work in better time, and at less expense-Nor can I pass by the admirable essay by Mr. Ruffin. in your No 40, v. 3d, which should be read by every

pable of comprehending. From my earliest remembrance. I have been accustomed to see corn with the tops, blades and stalks, taken at one operation from the ground, but the motive was then generally understood-It was to better improve a piece of grass land, or a lawn, and was of course upon a small scale. But for the enterprizing and extensive farmer, and who is perhaps in want of labourers, what is gained by removing in this form corn from the ground which is to be immediately sown in wheat? Certainly by this process the ground cannot be fertilized or rendered more productive-admit that every acre so managed gives you an extra bushel of produce, are you certain that this one, has not cost you two bushels?

Mr. Madison's admirable address, published I think in your first volume, has said all which can be said in favor of corn, as a source of manure, and most frequently my enquiries have been answered by saying, that this method increases the manure heap-This is possible, nay probable, (for in general, the fodder is only fit for the manur heap.) I can only discover that the manure heap is increased by the loss of much fodder, some corn, and much labour badly applied.

I have this fall been desirous to seek conviction, and more than usually attentive, I have examined the stacks or shocks in more than twenty fields, and can with great truth say, that not one of them showed good fodder.

How should it be otherwise? If the maturity of the gram is consulted, we know that the blade is too old, if the perfection of the blade is a consideration, your corn is not perfectly ripe, and although it will be safely dried, yet it will be loose upon the cob, and weigh ight.

You undertake this operation at a season when there is an uncommon press of work when you should be taking out manure upon your failows, or upon poor spots of your cornfield, from which indeed you may remove your stalks, because such spots are first ripe, corn light, your manuring is a primary consideration and the corn only a back load. By removing the corn and fodder of a large field, you may seed your wheat with fewer, neater furrows, (the only gain I can ima-gine) and place your land in better form for the scythe but are these your objects?

Manuring a field under this new management is out of the question; for by the time you have cleared all off, you are quite as late, and rather later than you

wish for seeding.

Although I am yet to learn what we gain by this new plan, it is evident what we loose. In either of the two cases first mentioned, you have bad fodder or shrivelled corn-2ndly, you break down your teams, prevent manuring, and procrastinate your seeding-3rdly, you increase the labour of husking, and expose yourself to great loss of corn by negligence and mattention 4thly, you increase your labour by frequent handling and securing your fodder, and last, but not least, you absolutely impoverish your land, by exposing the stump and roots of your corn, instead of suffering them to r main and rot in the ground.

Perhaps we have been lead into this new and laborious management by seeing it so uniformly performed to the North-There indeed their climate, course of crops, and small fields will bear them out-always and justly apprehensive of an early frost, they cut up their corn before perfectly dry, and of course their fodder s not yet dried up, and with them, relying principally upon hay for winter provender, the grain, and not the fodder is the object-and as they rarely seed w nter grain upon corn ground, it proves that removing their corn and stalks, it is not to improve the

mode of seeding wheat.

Hitherto I have steadily adhered to the old custom of first blading then topping, and at my convenience in suit bie weather after seeding, gather all my stalks . but the gale of last September which prostrated and tangled a fine field of corn, reminded me that I had of en suffere I in the same way, and reflecting that my Tobseco is improved by topping, that by early top-

the tops as soon as the tassel is dry, and farina exso, but as I make much upland hay, my blades shall be so far a secondary object, that more important work shall not be sacrificed on their account, nor shall the health of my people be staked for their safety.

I have paid much attention to select my seed corn from such stalks as produced two or more good ears, and always endeavor to provide twice as much as may be necessary for planting, that I may select the best ears for length of cob, depth of grain, number of rows, and weight of grain, and believe that by this method ny crops are improved, but I never did measure the grain of two moderate sized ears, against the grain of ne large ear.

I conclude by informing you, that between Christnas and the 8th inst. twenty-seven blacks from the cirle of twelve miles, have made an excursion to the slave concealing states, and are no doubt hospitably received and humbly entertained. I find the law is now Established in Pennsylvania five years confinement for the murder of a white man, and nine months for a rape committed on a white woman.

Y'r. Ob't Serv't.

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#### To the Editor of the American Farmer.

Mr. SKINNER,-In consequence of my wish to examine all the authorities within my reach, on Earths and Soils, the inclosed translation from Rozier's " Complete Course of Agriculture," was made by a very , oung lady, for my use. The difficulty of translating from that work is very great, owing to the numerous technical and provincial terms, and the difficulty, of course, is much greater to one totally unacquainted with agriculture. On this account, the author's words are rendered as literally as the difference between the French and English idiom would As I know of no English translation of this (or indeed of any other modern agricultural) work, you may attach some value to the piece.

The application of sand to clay soils, and clay to sands, recommended by Rozier for improving the texture of both, though certainly advantageous, yet seems too costly to be practised on our cheap lands. But in certain situations it might be highly profita ble, could we previously ascertain the probable benefit. I am compelled (with a view to other purposes,) to dig great quantities of stiff ciay, and would gladly use it for improving my poor light land, could I be imformed by you or any of your correspondents, what benefit might be expected. Every one can calculate for himself, the cost of the application : but to form a correct judgment of its advantages, we must know the quantity of clay laid on, its degree of purity (or the proportion of sand with which it is mixed,) as well as the increase of value to the soil, and its produce. I think you stated in one of your former numbers, that this mode of improvement had been practised near Baltimore.

## ON EARTHS AND SOILS.

Translated from the French of the Abbe Rozier.

Ancient authors have not thrown any kind of light on the knowledge of Earths, and modern ones for want of method, have a great deal to wish for on this important part of Agriculture. All Geonomical works treat of earths by characters from which it would be difficult to draw inferences on the properties of the soils, which these earths compose. They are so many accidental qualities. The coloured earths are distinguished into black, white and yellow. The different species are distinguished by the appellations of soils, dry or humid, compact or friable, light or heaping storms would have less power over my corn, that vy, poor or rich: all unmeaning characters, because by blading in the first instance, the tops became dry all of these different qualities offer good and bad

ionable, and the value of which, I confess myself inca- to rags; I have determined to make the most of infication, is that this nomenclature varies from one Eastman's improved cutting machine, by taking off province to another, and often from canton to canton; so that it is difficult to speak in a more unintelligible hausted-If after this I can save my blades I will do language. Under these circumstances, how are these treatises to be understood? By exploring the country, and examing its productions; then say the writers on soils, if you meet with lieble, that will indicate land suitable for wheat-Fern, land for rye, &c. These are conclusions, it is true; but let us substitute a much surer method, and reduce to principles the knowledge of earths.

> Of the Nomenclature of Arable Earths. I reduce hem into four kinds. Siliceous or sandy earth - Aluminous, or clayey earth-Calcareous, or chalky earth -Humus, or vegetable earth.

> These are the only four earths for agriculture. Every arable soil is composed of their mixture, and the different proportions of these four earths are what make the variety of soils, and which constitute their goodness, or their mediocrity. Let us in the first place, consider each of them in its state of purity.

> Siliceous or sandy earth is barren: the solidity of its particles, and their want of coherence, prevents them from being penetrated by water, which passes through the sand as through a sieve. This same solidity causes the sand to heat quickly, and retain the caloric, and much more strongly, when it is coloured. The action of the atmosphere, the first of improve-ments, is nothing on sand. Vegetables cannot germinate and grow unless they are kept constantly wet. Pure siliceous, or sandy earth is then unfertile.

> Aluminous or clayey earth, in its state of purity, s white; it cleaves to the tongue, is of an extreme tenacity, easily absorbs water, with which it forms a paste, soft to the touch, and susceptible of taking any form: Thus it serves equally, the statuary and the potter. Fire gives it the solidity of stone commonly find in clayey earth, enough humidity for the developement of their germs; but the fibres of the roots cannot extend into an earth so compact. Is clayey earth subjected to dryness ?-its moisture xhales, the clay shrinks up, cracks and splits into large r n s then the tender fibres of the young roots are tor -the base of the stem is compressed in every direction by the contraction of the earth, in the same manner that the roots are upon their side; the plant languishes, and in the end perishes. Should there be rains, it is only while they continue that the clay will embibe them; for although this earth strongly retains humidity, yet when once dry, it is slow to retake it, above all when it is in a mass; thus the rain water filters through the cracks, to be directly absorbed by the dried up roots, which instead of reviving, are touched with mould, and perish. What action can the atmosphere possibly exercise on an earth either hard or dry, or softened in this manner by water ?-its compactness is such, that it cannot open its bosom to the benign influence of the atmosphere; aitho' when finely divided, t unices itself to all the gasses. Aluminous, or pure clayey earth is then also barren.

Calcareous or chalky earth, (carbonate of lime) is that which by calcination becomes quick lime: it constitutes chalk, marble, and all calcareous stones. Shells, and those immense banks formed of their remains, such as the Faluns, are nothing but calcareous matter, for it is the animal kingdom which produces and accumulates on the globe, this kind of earth. Water wets it in the same manner as sand; it only passes through it. Moisture renders it heavy. Its whiteness repulses the rays of the sun, and will not allow it to absorb the caloric; so that the temperature of this earth, inferior to that of all others, constitutes necessarily a cold soil. Calcareous earth, the most barren in its state of purity, (and it is in that state that we consider each separately;) notwithstanding, carries fertility with it into the soils with which they associate it in suitable proportions. It is thus that marl fertilizes more or less according to the quantity of calcareous matter which enters into its mixture, and that it becomes a valuable amendnent for worn out soils. The chalky plains of Cham-pagne attest the poverty of this earth: it is only after and tasteless, and the blades thereon often whipped soils. But what adds still more to this want of sig- a repose of several years, that a scanty crop of spring

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Plac mer with

801 ing grain can be obtained. chalky earth is like vise barren.

Humus, vegetable earth, or mould, is the remains of vegetables which have undergone putrefaction. Vegetable earth is combined with salts, and oily substances, and has gasses which add to fertility. This earth and these substances are all disposed to enter into vegetable organizations, and this makes Humus easily, and plants grow rapidly; but the too luxuriant vegetation has not time to complete its roundif the plant blossoms, it is only to perish before it comes to maturity. The other earths are rendered unproductive by their want of fertility—Humus, or vegetable earth by its excess.

All arable soils are composed of these four earths which have been described. Chemistry admits of have no effect on vegetation, while our four earths, globe, on which they have been deposited by the deluged. These earths are deposited either singly

or mixed. often these deposits are homogenous-here the sill requisite for the different kird of pot-herbs. must also know the proportions of the four earths, manner your kitchen garden. serves to separate the four earths composing the soil siliceous, Aluminous, Calcareous, and Humus, I you wish to know It is only to weigh a pound of establish four species of soils, which shall take their your excellent Journal. it. The aluminous, and finely divided calcareous quality, as a wheat soil-made in the same manner on cies, [and the largeness of the several proportions of delphia. actly to what point his soil approaches, or how far table will render this definition easily understood. it differs from those soils, which are his objects of comparison. This knowledge, in the actual state of things, no proprietor possesses; so that he who has curivated the same field for upwards of fifty years, is still ignorant of what would be so easy for him to learn, by the aid of our analysis.

We shall enlarge but little on the happy application of this knowledge, when once acquired. It may be supposed how easy it then becomes for every proprictor to rectify the mixtures of earths made by chance in his kitchen garden, his orchard, and even in his agricultural works altogether; which takes place when he marls his fields. The art of improvement is only this; it consists in correcting one earth by the addition of another; to which let us add, that Without this first knowledge of the composition of a soil, we are only groping in the dark, with respect to approve ent. Each contents h mself w th i m t ing his neighbour; but that which would be proper

Thus, calcareous or pure for one field, would (frequently) be improper for the one contiguous.

Composition of Soils. Examples of the composition of soils: a rich soil—Siliceous 2 parts, Aluminous 6, Calcareous 1, Humus 1; in all 10 parts. A good soil—Siliceous 3 parts, Aluminous 4, Calcareous 24, Humus 2; in all 10 parts. A middling soil-Silicious 4 parts, Aluminous 1, Calcareous 5, less by a few atoms of Humus, the first of manures. In this earth, seeds germinate in all 19 ports. This shews that the greatest proportion of aiuminous earth constitutes the greatest goodness of soils; and independently of their harmony of composition, they require a tolerable depth.

Having assigned to each of our earths the properties which characterize them separately, one may easily judge from thence of the parts which they respectively sustain in the composition of soils. Thus the siliceous, a collection of incoherent particles, se others; but they exist in quantities so small, as to parates the too coherent parts of the aluminous earth; a mechanical effect, which opens the bosom of this the remains of mountains, cover the surface of the last, to all the influence of the atmosphere. In this association, the siliceous earth, incapable of retaining waters with which the two hemispheres have been water, shares the humidity of the aluminous, and absorbs enough caloric, by which the aluminous is with difficulty penetrated. The silicous counterbalances Of the diversity of soils. It is the respective pro- the cold quality of the aluminous, and so on with the portions of these four earths which constitute good, calcareous, the humus, &c. Many thousand kitchen bad, or indifferent soils; for, we repeat, that each gardens offer us an application of these principles of the three first in its state of purity is barren, and for the metioration of their soils. A proprietor carit is only from their mixture that fertility is productives me into his grounds; we arrive at his kitchen ed-above all, when humus becomes a part. The mix-ture produced by nature, varies infinitely. The allu-lere is his answer. "The soil is excellent; you see vions which have successively covered the globe, have how the cabbages, the artichokes and the thistles deposited, one after the other, siliceous, aluminous and deposits which have formed the strata that are met with, particular-law formed the strata that are met with, particular-law figures is difficult to work, is always infested with weeds, ly in vallies; which when they have but little thick-law formed the strata that are met with, particular-law figures is difficult to work, is always infested with weeds, law worthy the attention of the Southern planess mix easily, and constitute excellent soils: for reply, "than for you to procure the different soils, never stood high, owing no doubt to want of ceous, there the aluminous, and still deeper, the cal-soil contains too much of the aluminous earth. Leave careous. Happy the proprietor of land composed of a part of it in its natural state, which will serve for our three earths, the mixture of which constitues a the more vigorous plants; improve another part with rich soil, one of those soils for wheat which returns siliceous, another with a mixture of siliceous and calfrom 20 to 30 for one. These mixtures, for which we careous earth ;-vary the proportions, and you will are indebted to chance, may be easily made; in this consists the art of improvement. But to be able to imitate these rich soils, one must know them, and have made soils proper for them." Treat in the same constituted to the improvement of an article that the improvement of an article that the improvement of an article that improvement of an article that the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of an article that in the same contributed to the improvement of article that it is the improvement of the improvement of

which constitute so happy a mixture. Now nothing is more simple than this kind of analysis, which which form arable soils, being of four different natures, country. earth, dilute it with water, and stir the mixture; the names from whichever of the four carths may predosiliceous being the heaviest will fall first to the bot minate in their mixtures. They are, Siliceous soil. tom, separate it, [by pouring off the fluid] and weigh Aluminous soil, Calcareous soil, and Humus soil. J. S. SKINNER, Esq. There is not a single soil in which one of these four ear h will be mixed up in the deposit which floated earths does not predominate, and which, therefore, over the siliceous: then throw in any kind of acid; may not enter into one of these four species. But dissolved. This analysis made on a soil of the first posed of two or three words indicative of their spea mye soil, and then on an indifferent soil and the different composing a soil, expressed by the order ferent results known, every proprietor will know ex-in which those words are placed.] The following

#### GEONOMICAL TABLE,

The nature of 1	Earths.		Th	e species of !	Soils
Siliceous earth	[predomi	nates	ia]	Siliceous So	il
Aluminous -				Aluminous	-
Calcareous				Calcareous	-
Humus				Humus	

#### SURD VISION OF SOILS.

SUBD VISIO	A OF SOILS.
1. Siliceous Soil.	* 3 - Calcareous Soil
Siliceous Aluminous.	Calcareous Siliceous
Siliceous Calcareous	Calcareous Atumious.
Siliceous Aluminous Calca-	Calcareous Siliceous Alu-
reous.	minous
Siliceous Caicareous Alu-	Calcareous Aluminous Sili-
minous.	ceous.

2 .- Aluminous Soil 4. - Humus Soil. tumus Siliceous. Aluminous Silice atte. Aluminous Calcareous. Hamus Alaminous. Aluminous Siliceous Cal-Humus Siliceous Alumincareous. 0119 Aluminous Calcareous Sili- Humus Aluminous Siliceous.

FOR THE AMERICAN FARMER.

### INDIGO.

Philadelphia, December 21, 1821.

Dear Sir,-I have the pleasure to send you letter from an esteemed correspondent in Calcutta, and also the paper on the preparation of indigo, to which he refers .- It may possibly prove useful at present, or hereafter, to some of our Southern fellow citizens, notwithstanding the cultivation of the Indigo plant has been almost entirely laid aside for the more healthy and profitable cotton shrub. But the price of cotton may continue to fall in Europe, and the lemand for Indigo cannot fail to be steady in the United States, for our manufactures are faily extending, in spite of all opposition, or knowledge, or care in the preparation of it .-Whether the particular species they cultivated, is the same as those in Bengal and South America, I do not know, but I shall inquire into the fact. The genus is extensive. I shall be contributed to the improvement of an article so essential to the true independence of our

My best wishes are offered for the success of

JAMES MEASE.

I have been favoured with the annexed stateit dissolves the calcarcous, and leaves the aluminous, how indicate the proportions of these same earths in ment of the wholesale prices of Bengal and which is also weighed, and that which is wanting in each particular soil? Nothing is more simple. It is the weight will be calcareous earth, which the acid only by shewing them under a complex name, commost extensive dealer in that article, in Phila-

r	Spanish.		Be	ngal.
5	1811, June,	\$2,10-2,12	Oct.	\$1,80
	, Aug.	2.00		
	1812, March,	1,95	Feb.	1,87
	, Sept.	2 05	March,	1,50
	1813, Feb.	2,00	Feb.	2,25
	, March,	2,30		
	1816, May,	2,45		
•	1815, June,	1,80		
	1816, May,	2,25	March.	2,37
	1816, May, 1817, Feb.	2 0		
	, Aug.	1,85		

Since 1817, it has raised from the price last quoted, to \$2,25, at which it now stands. From the daily increasing demand, there is no prospect of its being lower.

For an excellent paper on the use of indigo in dying, and on the different qualities of the

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We ac tions, 1. F utero\* II.

becon or aft tion, of the

article, see Archives of useful knowledge, vol. 1 [middle or latter end of June, our produce is the vat to be too much steeped; not that page 305.

Calcutta, 22d July, 1816.

DEAR SIR.

in the habit of making Indigo, by what is there called the Dutch method, having borrowed i from Java, that is from the leaf only, pulled ing, but when arrived at maturity will imme-little doubt. When ready we let off the liquor from the plant and dried. One of my corres pondents having just established a factory, a handful of ripe leaves, and put them to your off, the plugs of communication between the wished to try the Bengal method, as he termed ear and squeeze them, you will hear them beating and steeping vats are shut, and we it, from the plant cut green, and requested me crackle. The fresher the plant is brought to throw away the weed that remains in the to endeavour to procure for him the most ap- the vats the better, and for this purpose we steeper. We then turn in the people to beat proved process used in this settlement. For generally endeavour to have it cut very early the liquor which has been let off. This operatunately, (for it is quite out of my line) I knew in the morning, and brought in before the me- tion generally takes from two and a half to a young man whose good qualities and general redian heat of the day. I do not approve of its three hours, but I have heat as long as four or abilities had induced an eminent planter and being cut over night for the next day's loading ; five hours, and in my opinion this is the part of manufacturer to tempt him from a Commercial as, though it may not be heated, I think the the process which requires the nicest attention. House, in which he had been placed-he had plant becomes flace d and unwilling to part with With us, the men stand in the liquor, and agitate been long enough in the Indigo business to have the colouring matter. Should the plant, on its it with paddles something like those used in easeen the whole operation, and not long enough way to the factory, have become heated, it turns noes. The froth at first rises rapidly to the height to have forgotten the circumstances that first quite black-and we are particular in such of a foot or a foot and a half, and appears white struck him, or to effect that mysterious reserve. cases, in separating and throwing it away, as tipped with blue; it then, as the bearing goes with which my enquiries might have been me by we consider that when in that state it produces on, gradually subsides, and becomes blue; the an older practitioner. His answer is clearly texture not a particle of colouring matter, but material beating is continued till all this blue colour in pressed, and I have every reason to believe by tends to spoil the rest of the plant, to impede the froth disappears and it becomes clean white that it is a faithful and fair detail of the method the process of the manufacture, and render black or with something of a reddish tinge, and impursued by those who have long and success, and brittle the whole produce of the vat into mediately on the heating being stopped, dies fully carried on the works, to the superintend- which it may have been thrown. When the plant away and leaves the surface of the liquor clear. ence of which he had been called. His letter arrives at the vat, we untie the bundles and We generally, however, judge of the progress gave great satisfaction to the gentleman for whom I had made the enquiry.

Indigo Manufacturers, that the inferiority of posture we think gives the water a more free clined position -at first it appears quite green, our Carolina Indigo, was more to be attributed access to the leaves. Over the first laver we but in the course of the operation, changes grato the process in making, than the soil and culture; the great improvement in quality of the Bengal Indigo, since it was first undertaken by explain it better by saving as you would lay the the granulation completed, (which is visible to Europeans, and the superiority that some mak-grass on the thatch of a house. This done, the the eye, by holding the plate inclined for ers maintain here over others, seem to counte- height of the plant in the vat will be about about a minute or less) the fecula is observed nance this opinion. While considering what I three feet. Over the plant we lay gratings to subside and leave the water of a reddish or had to offer, it occurred to me that this paper made of split bamboos, (we do not use mats) strong Madeira wine colour. By this and the would be acceptable to you, and as I see by the and these are fixed down by means of large froth being clear, the vat is ascertained to be Price Currents that the cultivation is still con-beams attached to the vats, at intervals of three sufficiently heated. We do not use lime water tinued in Carolina and Louisiana, it may post or four feet, to resist the expansion caused in to ascertain this point, because it will equally

in it.

I remain, Dear Sir, very respectfully, Your most obedient servant, D. INGRAHAM.

Dr. James Mease, Philad.

of the process of Manufacture, &c.

digo, much depends upon the soil, much upon coolness or heat of the weather. The signs by liquor, which if of a strong Madeira wine cothe weather, and there are certain points which which we judge that the fermentation is com- lour is considered best. If green, or inclined the manufacturer cannot learn by any descrip-pleted are, that the bubbles which are thrown to a dirty blackish hue, in the former case the tion; he must acquire them by observation and up to the surface during its progress turn to a vat has been generally too little beaten, but

that the land which is most suitable for corn it off .- Should the fermentation be allowed to and put into the boilers, to which the fire is set, and mustard is the same for indigo. If we hap-go on, the froth acquires a darker and somewhat and kept under them for tenfor twelve hours, pen to have showers of rain in March and dirty hue, and the scum on the intervals turns it is then taken away, a chittack (two ounces). April, and if the regular rains set in by the to a strong copperish colour, and we consider of alum pounded and dissolved in water, is

then the greatest, and we are enabled to com- it is spoiled, as some even carry on the mence manufacturing about the 20th or 25th of fermentation, as long as sixteen hours, and say lune. The plant we consider as fit for cutting that the produce is increased; of the increase On the coast of Coromandel they have beer when it begins to flower, and a very good sign in produce, however, by this mode of treatof its ripeness is the brittleness of the leaf; ment, I am not quite certain, but that the qualiwhen young it will bend double without break- ty is materially injured by it, I believe there is diately snap on being bent; -and if you take into the beating vat, and when all is drained place them therein, not quite upright, but rath- of the beating, by now and then taking a little er in an inclined position, with the stalks rest- of the liquor and putting it on a clean white I recollect to have heard from two or three ing on the bottom of the vat. This inclined queens-ware plate, held in the hand, in an inplace another in a posture rather more inclined, dually to blue, and the colouring matter begins with the stalks uppermost, or perhaps I shall to granulate; when the colour is quite blue and sibly afford some useful hints to those engaged the plant by the fermentation. When the vats cause a granulation and precipitate the fecula are lo ded and ready, we let in the water, and when the vat is only ha f beaten, as when it is the speedier the vat is filled the better, as oth-completely so, and is consequently apt to miserwise the plant is apt to heat by compression lead. We, however, add a small quantity to in the vat, and consequently to spoil. We here the vat when the beating is finished, to assist in fill a vat of 40 feet long, 18 broad, and 3 deep the precipitation of the fecula-though if the in 20 minutes by means of a reservoir. We plant be ripe, I do not think even this necessa-Extract of a letter written in October, 1814, always cover the plant completely with water : ry. If the operation of beating be continued from a gentleman in the superintendence of -this done, we leave the vat to ferment, a beyond the state above mentioned, the fecula some extensive Indigo Factories, on the Gan- process which is generally completed in the becomes black and the quality of the Indigo is ges, near Boglipore, giving a concise account space of from ten to twelve hours, at least so 1 of course, injured. After the beating is finhave found it during my short experience The ished, we allow an hour for the fecula to sub-"In the cultivation and manufacture of In- fermentation is more or less according to the side, after which we draw off the supernatant tine, light froth, spread over the surface in lit- this is always preferable to the latter hue, which In this part of the country, we sow at three different times of the year, viz: in October, in February and in June; though our chief dependence is in October sowings.—We think —This we consider the proper time for letting off, the fecula is collected, strained twice,

stand for an hour previous to its being let of is added, being of use in precipitating extraneous matter, which might affect the cleanliness the tables till it comes to the consistency of a strong jelly, it is then put into frames, pressed, and cut into cakes, which should be left to dry as gradually as possible, not suffering wind to blow upon them, which will subgree useful," &c. &c.

## An Investigation of some curious facts in Natural History.

FOR THE AMERICAN FARMER.

Mr. Skinner,

As I am an old fashioned man, I could not but admire a the simplicity of an article extracted from the . London Farmer's Journal," in the 39th number of your valuable paper. The agricultural community are there informed, that the properties of the male are transmitted, in breeding, not merely to the immediate offspring of the female, but to the remote progeny of subsequent conceptions, and by different sires! Consequently the breeder of Mules, for example, need only obtain one foal, from the Cross of the Ass with the Mare, and the Mare is then prepared to breed Mules from the Stallion Horse! Admirable indeed! How readily do the laws of nature accommodate themselves to the ill-digested theories of visionary men?—The votaries of Natural History may soon prepare themselves, for equivocal generation itselfnot only among brute animals, but our own species ! and soon may we expect to realize the vision of the Poet :-

" Men prove with child as powerful fancy works, "And maid's turned bottles, call aloud for corks!

But to be serious, Mr. Editor, permit me to enquire of your practical readers, whether (admitting the sup-position of the "London Farmer's" correspondent to be correct) the after offspring have been known to produce their kind, or, in other words, to breed ?- Now, I hold it to be a fact past contradiction, that although a mixed offspring may be obtained, from the crossing of animals of different species, but of the same genus, yet no instance can be authenticated, where said off spring have been known to breed. And this agrees with what is remarked, concerning the unimal produced from the Quagga and the Mare, in the article aidded to :- for that, we are told, " proved hybrid, or incapable of breeding." So Mules may be obtained from crossing the Ass with the Mare; but no one ever knew Mules to produce their kind. Mongrels may be obtained from crossing the Canada and the common Geese; but no one ever knew such mongrels to breed! It is a law of nature, that the different species of the animal creation shall not be commingled beyond the first degree. But according to the posi-tion assumed in the "London Farmer's Journal," the colts produced from an Arabian Horse out of a mare. that had previously bred a mongrel feal, possessed many of the characteristics of the Sire of this toal— If so, then these colts must be mengrels! How shail we account for this? There can be but two suppositions, as I conceive, concerning it.

1. Either a portion of the seminal fluid remained "in uters" after the production of the mongrel foal, or

II. The characteristics of the Sire of said Mongre become incorporated with the system of the Mare, at or after the first conception. As to the first supposition, it any portion of the seminal matter of the Sire of the Mongrel remained " in utero" after the pro-

ded to each boiler, and the fecula allowed to duction of said Mongrel, and if said matter entered Communicated for the American Farmer. into the formation of the subsequent offspring, then on the draining tables. The chittack of alum this offspring must be of three parents, to wit: the Quagga, the Mare and the Arabian Horse! But the is impossible, for, in the first place, a mongrel, that is an animal of two species, cannot be formed otherwise of the Indigo. The fecula is left to drain on than half and half-a greater or less portion of the blood of either parent than half cannot enter into the offspring. Nature, as I have said, has prohibited to commingling of the species, in any other portions, than half and half ! otherwise we should see 1-4 and 1-8 blood mongrels, which is contrary to all experience-In the second place, supposing the instance to ject them to crack. I have now, my dear sir, relate to animals of the same species, I believe it communicated all I know on the subject, and it will be contrary to experience and repugnant to comwill afford me pleasure if it proves in any de- mon sense, to suppose an animal the offspring of three barents !

> properties of the Guagga become incorporated with the system of the mare, prior to her conceiving by the Arabian Horse - this is not only absurd but impossible. It is absurd, in as much as, if we admit it to me, that the "foetus in utero" is a mere recipient, and can neither contribute to the nutriment nor the inherent qualities of the parent, any more, than wheat can add to the character of the soil it is sown in. Having of the "London Farmer's correspondent," it may be a stercorary under a barn. My experience had expected that I should say something by way of ac-shown, that if sufficiently spacious and well counting for the phenomena, he has described-and first, of the Arabian Colts.

> durk coloured list, down the back and across the draining over the heap—are the most material stripes upon the mouse coloured ground above nam- the state of capital employed. ed his back and buttocks, with the exception of the list, are without stripes. His form is much like that of the small Ass of Barbary.

> ception of the stripes on the head and neck) and not tate-not to admit more than the water-tight unfrequently. I have myself witnessed several spe-receptacle would contain; that secured. I should ciniens, among the rest a number of half-blood Arabians of a light ash colour, listed across the shoulders and along the back, and having stripes around or buildings and declivities would throw in-uncrossing the fore arms, from Horses imported into less indeed, the quantity was so great as to ren-Two years since, there were four of these animals in the city of New York, driven in the carriage of a ly governed by convenience—On a rainy day gentleman, of course- the position I take touching their colour is notorious.

> As to the other instance, adduced concerning Swine, I am of opinion, that the colour of the Pigs described, might be easily accounted for, were the Pedigrees of the Boar and Sow, and also the peculiarries of colour I have two objects, one is to produce fermentaamong their ancestors presented to us, it being a shown fact, that the characteristics of the ancestors will oc asionally exhibit themselves even among the remote progeny. At any rate it is by no means surprising to notice, among animals of the same species, new varieties of form and colour, either from accident or otherwise.

Positive and and dogmatical, as the preceding remarks may appear, my opinions are not grounded on a ain theory-I appeal to experience-" Thy Servant' rade hath been Cattle from his youth, even until now," and he doth not fear contradiction, but expects suport from every sensible and practical agriculturist GEORGAS.

New York, January 2d, 1822.

G. W. JEFFRETS.

### THE STERCORARY.

Quincy, (Mass.) June 20, 1817.

Dear Sir .- I should have earlier acknowledgd the letter you did me the honour to address me in Aprillast, but absence from home, and ngagements prevented that attention to it. which it was entitled to receive. Your inquiies needed no apology. It gives me great pleasure to correspond with gentlemen interested in agricultural pursuits. These now occu-11. As to the second supposition, viz. that the py much of my thoughts, and success in them s deeply connected with the prosperity of our country.

In relation to the particular object of your letbe true, then a dray-mare, that has bred several coits ter, I do not know how I can better reply than by from the Race iterse, may be supposed so transform referring you to the first volume of the Memoirs ed, as to breed race s even from a Flemish Stattion! It of the Philadelphia Agricultural Society, page is impossible since every anatomist will agree with 282—which contains all the hints, I deem esthus seriously attempted a confutation of the doctrine teract the opinion, he expressed of the effects of ventilated, it had no injurious effects upon the Both these animals," we are told," " in their colour health of the animals above, or upon the quality and in the hair of their manes, shewed a striking re- of the manure. I stated my experience, and to semblance to the Quagga" Now, as to this animal, my surprise found myself in print. Every I have myself once had an opportunity of seeing one, thin; essential to be attended to in the con-in London (a male), and as to Arabian Horses, I have struction of a stercorary, is I think contained seen many, and of various casts and breeds The in those memoirs. To be covered—to be water-Quagga has a light and thin mane and tail, his colour is of a light mouse grey ground; is marked with a shoulders; his head, neck, fore arms and sides are points of attention. The scale will depend striped similar to the Zebra, with dark coloured upon the size of farm to be accommodated—or

With respect to your inquiries concerning the quantity of water to be applied, &c .- I These characteristics, (in a certain degree) are also know no rule on the subject, nor any do I beto be observed in the Arabian Horse, (with the ex-lieve exists, which common sense will not diclet as much water enter as the surrounding New England from Tripoli, by the late Gen. Eaton, der working in the stercorary inconvenient. As to the " time of irrigation," I have been whol--if my hands have nothing else to do, they irrigate my cellar-sometimes by the machine, I state in the letter to which you allude-at others by the aid merely of buckets. In doing this non, the other to enrich every part of the heap, by the particles contained in the drainage.

I have no experience of composts made on the scale and in the manner which you suggest. I use no straw as litter; my horses live upon this cut with oats, barley, or Indian meal. Sea-weed s my litter. " Weeds, leaves, earth," I think nest treated in a rough way, and thus best composted. Let the yard be made of a size suited our stock-cast in those substances occadonally, and yard your cattle upon them at mant. By treating and manure, &c. they unite and amalgamate the mass. If you choose then

to cart it to your stercorary, there mix, irrigate from relaxing in the navigation laws, the Bri-fthis defect will be remedied in the third edition, and and let these substances ferment, the better.

I have not these two years past "turned over" my manure in my stercorary, any more than is sufficient to make good stowage of it. Nor do I believe any thing is gained by "keeping ma-nure" after it is one year old. As to rough composts out of gross materials, much must d pend upon the material, and the advantageous circumstances, in which the heap has been composted.

I consider water as the best medium for com municating the riches of the manure heap to the soil.

The best mode is to cart the drainage upon the land, and apply it to the grass or to the vegetable cultivated. If this be not convenient, then, I never allow a loaded cart of manure to start from my stercorary until it is saturated with the drainage by pumping this on the load.

I shall inclose to you by mail, the last number of our Massachusett's Agricultural Journal. and shall be gratified to hear that it reaches you

The state and scale of Agriculture is so dif ferent in North Carolina and Massachusetts, that I scarcely know whether any thing I have written can be serviceable.

You will receive it, however as the best information I have to give, in compliance with your request : and as an evidence of the respect with which

I am, your's, &c. JOSIAH QUINCY.

Geo. W. Jeffreys, Esq.

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This is a point which has been the subject o more experiment than perhaps any other in which the United States are interested. The system of restriction on our part, is in that particular state, that we must necessarily go on with it, or reverse it, and that immediately.

It will need no very powerful arguments to shew that a modification of the latter plan is our best policy. The act of 1820 which prohibited the importation from the free ports of Bermuda, Halifax and St. John's, of any articles but those produced there, has had the direct contrary effect which was looked for-benefitting us, by extending our share of the carrying trade to the British colonies, masouch as the extensive supplies we sent, prior to the taking effect of that act, to Bermuda, at a freight at the rate, for instance, of 12 dollars per M. for staves, go now almost wholly to New Brunswick, at the rate of 5 dollars per M. for the same, with the like difference in other goods. In the mean while, the sugar, molasses, coffee, pimento, &c. which paid us so large a revenue, now go to the European markets-for it is a well known fact, that nothing can be sent hither from the British Islands, through those belonging to other powers, but rum; at the same time the facility of selling the cargoes we send to the free ports, by that it is perfectly executed. barter for the above articles, and which, if onrestricted here, would increase the vent and the profit at least two fold, is lost-to say noth- index appended to the former impressions of this voing of the return freight to our vessels. So far lume, are not as full as we wish they had been made;

St. Andrew's, on our very border-while other sources of supply to their colonies are daily discovered : deals from the Baltic, and staves from have printed some surplus copies of it, persons who quantities, to say nothing of the resources in power by making an early application, to get the three the Islands themselves; and the more impediments we place in the way of their dealing with us, the more they will look elsewhere for what they want. Does it not follow, that, in 'he end, lutely necessary we may teach them to do without us? It did appear three years ago, that the plan adopted on both sides, of dividing the carriage by the medium of free ports, was calculated to satisfy both parties, and so it certainly was, with regard to Bermuda. What crooked policy it was, therefore, to adopt a plan which lessened our share of that advantage! As matters now stand, let mendations will be required. simply the prohibition upon imports from Bermuda be taken off, and it follows, to a moral certainty, that the great bulk of the exportations from this country to the British West ladi s will go that way, nstead of to the adjac n ports ceived a fresh supply of of New Brunswick, and at an advantage to our shipping interest, amounting to little less than the whole value of the object sought for, for it may very safely be asserted, that the tade with Bermuda is as great an advantage to us as that with Barbadoes. &c

It is equally a voyage, and though somewhat less in duration, the rates of treight would be found nearly the same, and the diffe e ce of chimate in which our seamen would be exposed is beyond comperison in favor of the former. The yielding by G B i ain of a direct and u ancumbered trade can never be expected. It employs too many of her seamen, and too much of her floating capital, not to be an object of vital importance. Admitting that our supplies are indispensable, and that we de rive the colonies of the obtaining of them but by direct importation in our own vessels, will it not be in their power when conceding this, so to burthen the traffic with taxes and tonnage duties as to make it ruinous to us; and, to prevent this, where are our restrictions to stop? A perfect reciprocity is evidently only to be obtained by the mode so nahoped, if this question is taken up in Congress this year, as has so often been the case, that it will be put at rest by the adoption of a plan symilar to the one now pointed out.

#### THE PARMITIE.

BALTIMORE, FRIDAY, JANUARY 25, 1821.

#### THIRD EDITION OF THE AMERICAN FARMER.

It gives us great pleasure to announce that the Third Edition of the second volume of the American Farmer, has been reprinted, and is now in the Binders hands; to those who have ordered copies, they will soon be sent, and others who may wish to have them can now be supplied-Price 5 dollars bound.

This edition has been revised and corrected with very great care, and we persuade ourselves to believe

The third edition of the first volume will also be ready for delivery early in the month of March, and with it a very copious Index will be furnished.

tish government have lately opened the port of shall not occur in any future volume of our work; nor should it in the case that we regret if our attention had been sooner called to the subject.

Our third volume draws towards a close, and as we Hamburgh, are seen shipping thither in large have not yet procured the work, will have it in their

Our republication is an expensive undertaking, one that renders new subscribers at this time peculiarly de. sirable; and punctuality on the part of old-ones abso.

## A Clerk and Messenger.

The Editor wishes to engage a Young Man of good education as a Clerk in the Office of the American Farmer; and a lad well acquainted with the city, to be employed as a Messenger. Satisfactory recom-

## Cabbage Seeds, Early Peas,

&c. &c.

JOSEPH P. CASEY, Seedsman, &c. has just re-

English C	abbage	Seeds, &c v	iz.
Early Dwarf Cabl	bage	Large amsterdam	do
Screw	do	Smyrna	do
Salisbury	do	Unique	do
York	do	Green Savoy	do
Sugar Loaf	do	Yellow do	do
Penton	do	Cape Brocoli	do
Battersea	do	Purple do	do
Late Battersea	do	White do	do
Red Pickling	do l	Green do	do
Flat Dutch	do ·	Early Cauliflower	
Drum Head	do	Late do	
Imperial	do	Dutch do	
1000 Headed	do	Smyrna do	
Turnip Rooted	do		

	EARLY	PEAS.	
Six weeks Peas	S i	Glory of A	merica
Early Hotspur	io	Dwarf Mar	rowfat
Golden do de Prolific do de Early Fame	do	Large Mar	rowfit
Prolific do	do 1	Knights	do
Early Fame	do	Black-Eye	Peas
Imperial c	of	Field	do
Blue Prussian d	lo I	Egg	do
Dwarf d	lo I	Pearl	do
	HOTBED	EEDS.	

Egg Plant and Radish

Cucumber, of sorts. With a variety of other Garden Seeds, Roots, Early tural of dividing the difference. And it is to be Corn, of sorts, Bird Seeds, Tools, &c. Agricultural Almanacks for 1822.

| Capsicums or Peppers

## CORN SHELLERS,

AT REDUCED PRICES.

The subscriber has just received from the manufactory a supply of those valuable machines at reduced prices, which enables him in future to sell them as follows : to wit-

Large size with the stool, at \$22 Middle size - - 19 Small do.

For the information of those unacquainted with these machines, I will just say, that they have been often tried and will shell, with the aid of a man and boy, from 15 to 20 bushels in an hour; being mostly composed of ron they are not liable to get out of orderany person taking one and finding on trial, it does not perform according to their expectation, shall be at liberty to return it. It being small, the freight or carriage will be about the same as a barrel.

On hand a general assortment of PLOUGHS, Field and Garden Seeds, &c. &c.

ROBERT SINCLAIR, Plough and Seed Store, Ellicott street, Pratt street wharf, Baltimore.

I. now vege of a A egg suin ther appe serv on t T susta table the t othe for t

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